

FIG. 1 is a block diagram of a network architecture. The network includes a central SWITCH/ROUTER 10, which is connected to two OPTICAL SWITCHES 11 and 12. OPTICAL SWITCH 11 is connected to five residential buildings 20, and OPTICAL SWITCH 12 is connected to five residential buildings 20 and two commercial buildings 22. All buildings are connected to the optical switches via lines 17. The optical switches are connected to the central SWITCH/ROUTER 10 via lines 16. The central SWITCH/ROUTER 10 is connected to a WAN 1 via a bidirectional arrow 15.

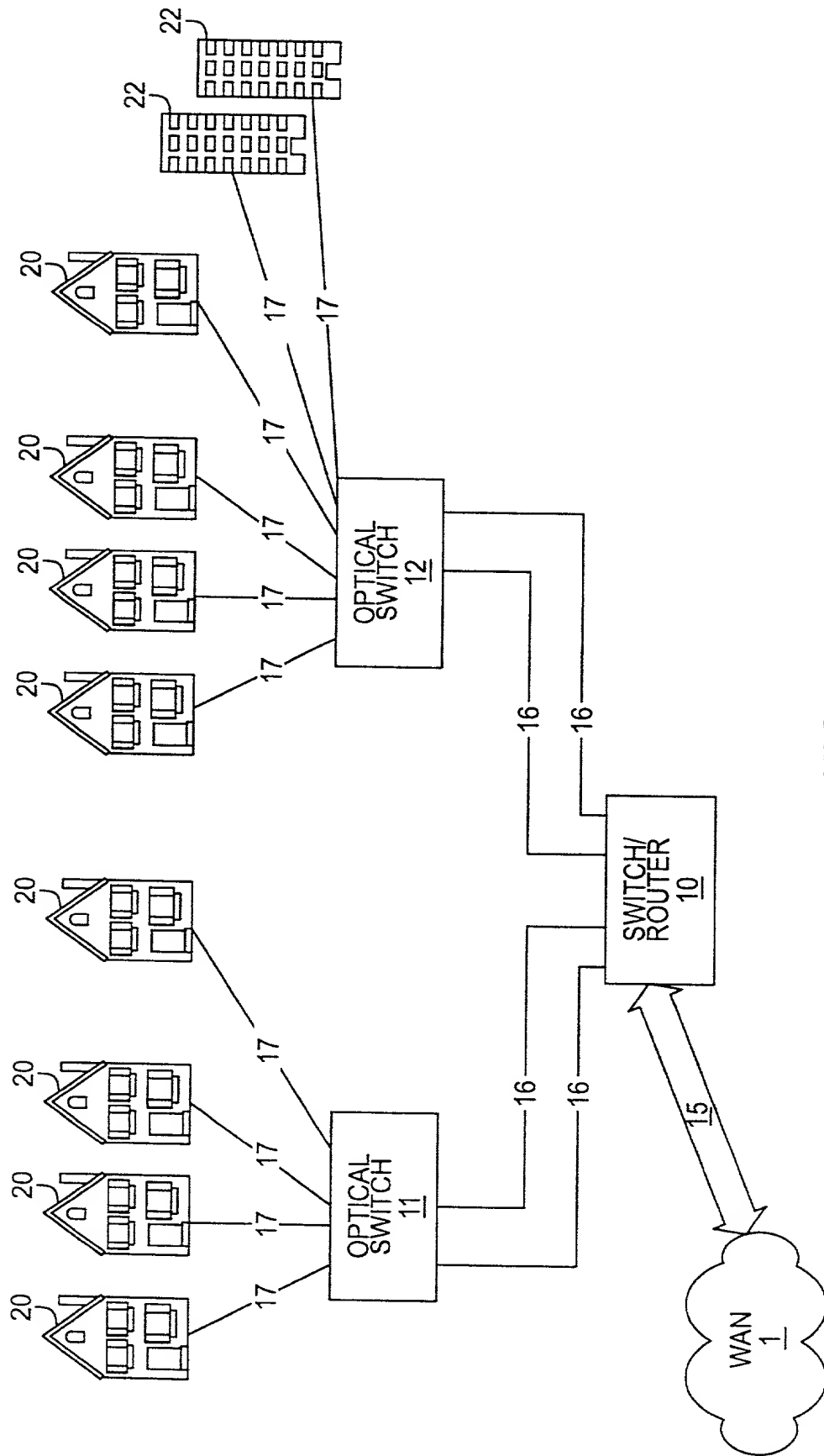


FIG. 1

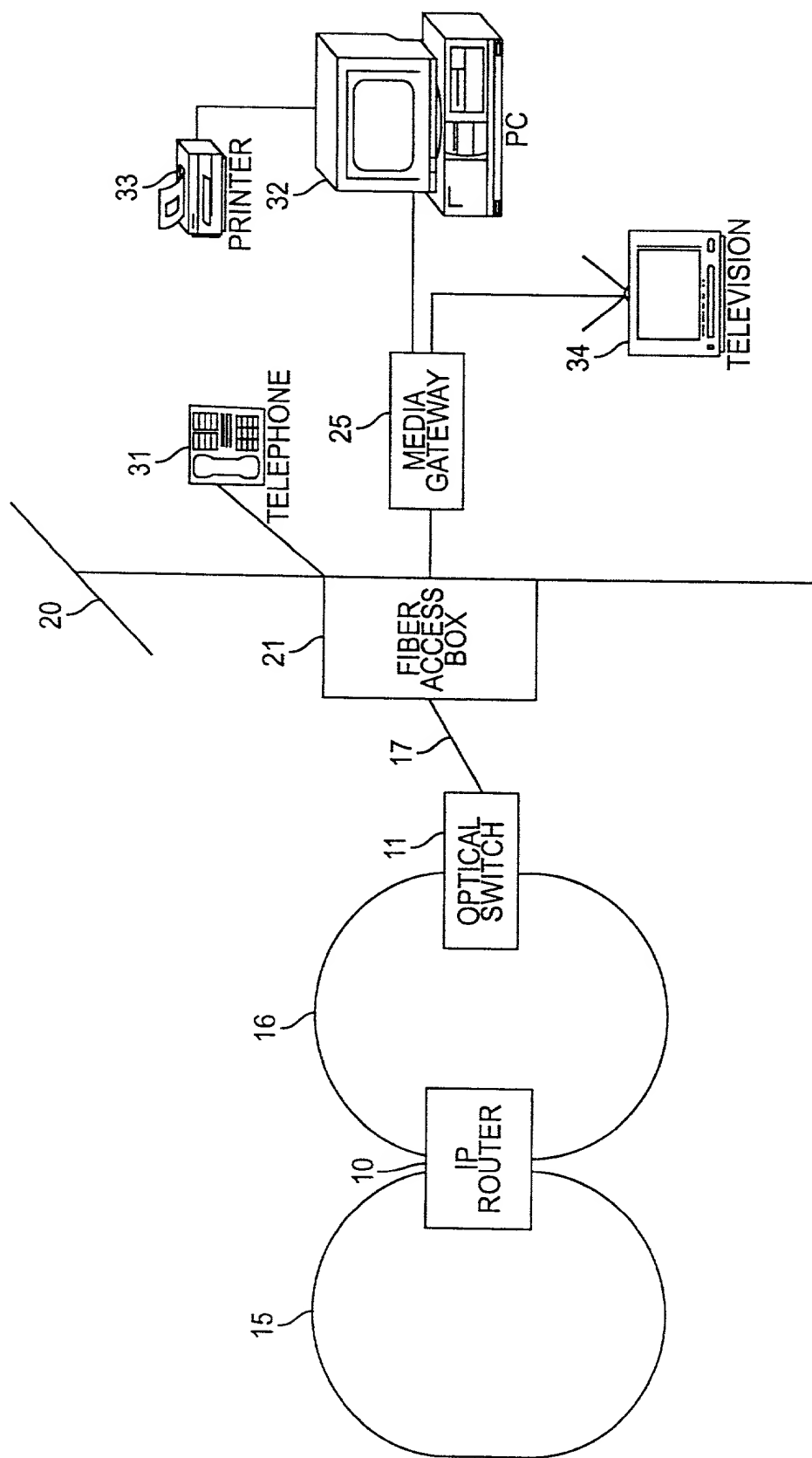


FIG. 2

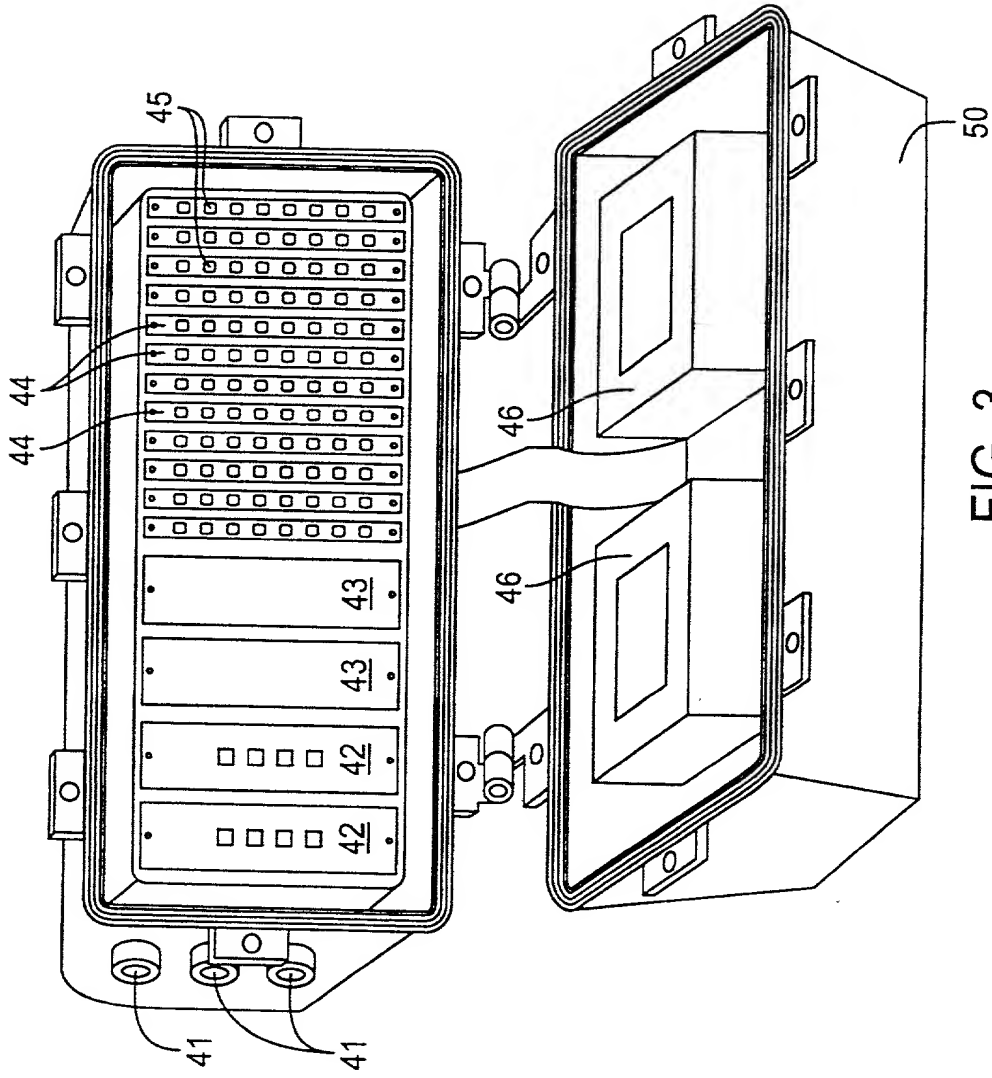


FIG. 3

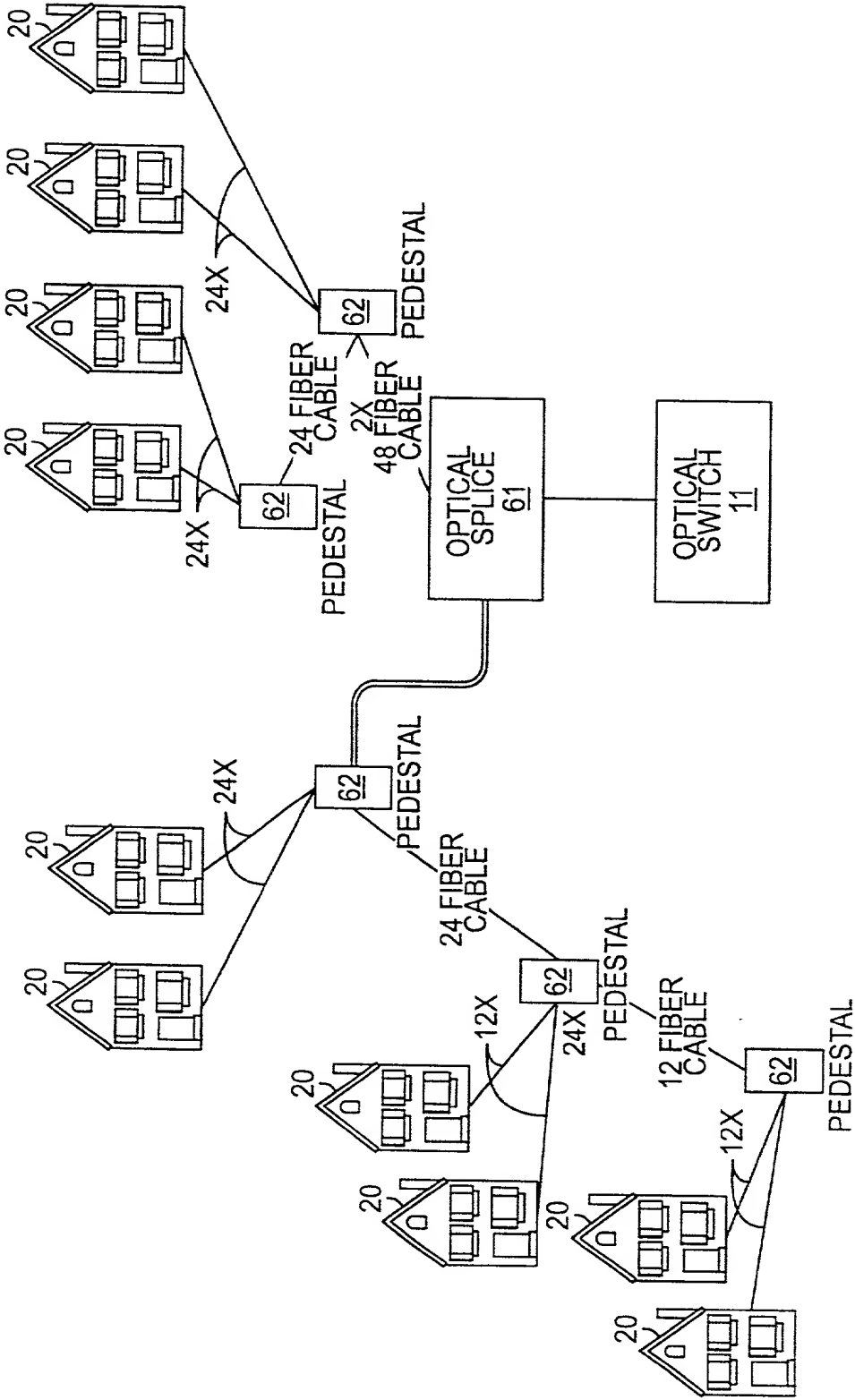


FIG. 4